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DESCRIPTORS: *Lithium compounds, Salts, *Niobates,
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Lattices, Density, X-ray diffraction analysis.

Lithium orthoniobate and orthotantalite were synthesized
by two methods (giving identical results): (1) by the
interaction of lithium carbonate and niobium (tantalum)
pentoxide and (2) by the fusion of niobium (tantalum)
pentoxide with lithium hydroxide. The lattice constants
of both salts were determined. The pycnometric den-
sities of the lithium orthosalts of niobic and tantallic
acids were found to be in agreement with their calculated
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